



Waste Handling Area Polychlorinated Biphenyl (PCB) Sampling Report

Indianapolis Return Center
3333 N. Franklin Rd.
Indianapolis, IN

Prepared for:
Walmart

Prepared by:
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Tampa, Florida

Date:
September 26, 2014

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Acronyms and Abbreviations

ALS:	ALS Environmental
cm:	Centimeter
COC:	Chain-of Custody
ENVIRON:	Environ International Corporation
EPA:	Environmental Protection Agency
GC:	Gas Chromatography
HASP:	Health and Safety Plan
IPA:	Isopropyl alcohol
IDEM:	Indiana Department of Environmental Management
ml:	Milliliter
$\mu\text{g}/\text{m}^3$:	Micrograms per cubic meter
$\mu\text{g}/\text{cm}^2$:	Micrograms per square centimeter
NELAP:	National Environmental Laboratory Accreditation Program
OSHA:	Occupational Safety and Health Administration
PCB:	Polychlorinated Biphenyl
ppm:	Parts per million
TSCA:	Toxic Substances Control Act
USEPA:	United States Environmental Protection Agency

1 Introduction

ENVIRON International Corporation (ENVIRON) is pleased to this evaluation of Polychlorinated Biphenyl (PCB) Analysis results from sampling in the waste handling area (Sortation Area) at the Indianapolis Return Center (IRC) located at 3333 North Franklin Road in Indianapolis, Indiana. The IRC is a 275,000 square foot warehouse and distribution building on a 14.8-acre parcel located in a mixed land-use area (industrial to the south and east, residential to the north and west) just east of I-465 at the intersection of North Franklin Road and East 33rd Street, Indianapolis (Figure 1).

The objective of the sampling and analysis performed on containers and waste materials stored in open containers was to assess the presence of PCBs on exposed surfaces of materials currently stored in the Sortation Area at the IRC. This evaluation was conducted to characterize the conditions of the materials currently stored in the secured, dedicated portion of the building used to manage waste materials.

The primary activities at the IRC include receiving shipments of mixed merchandise returned from various Walmart-related retail operations and sorting this merchandise for various dispositions. In the course of these activities, certain materials are identified for management and disposal as wastes. Waste items may be managed as routine solid waste, but categories of items that are potentially subject to specific waste handling requirements (e.g., RCRA universal waste or hazardous waste, recycling) are transferred to a discrete, secured section in the southeast corner of the building operated by a waste management contractor. In this area, waste materials are characterized and segregated accordingly for shipment depending on waste type.

In addition to consumer products designated as wastes from IRC processing, wastes managed in the Sortation Area also include the typical wastes and recycling items generated at a warehouse distribution facility (e.g., batteries, fluorescent light bulbs) and waste or recycling items from operations at Walmart-related retail facilities that are shipped to the IRC for management (out-of-service computers, security monitors, fluorescent light ballasts). All of these wastes are managed by the third-party contractor in the secured Sortation Area.

The IRC is a RCRA Large Quantity Generator and generates solid wastes, universal wastes and hazardous wastes. Among the corresponding regulatory requirements are characterizing waste materials such that any mixed wastes and the composition of various wastes are understood and can be disclosed to relevant vendors treating, storing or disposing of wastes. Also, there are time constraints on the period over which certain wastes can be accumulated on site.

The sampling and analysis presented in this report was intended to characterize particulate containing PCBs on the surface of waste materials and adsorption of PCBs into waste materials being managed and stored at the facility currently. The goal of this evaluation is to provide information about whether waste characteristics for materials managed in the Sortation Area are affected by potential PCBs in the building such that changes in waste handling and management might be appropriate.

2 Waste Handling Area Sampling Activities

A sampling plan was designed to address the goal described above using a combination of bulk samples of porous materials and wipe samples serving to collect dust and loosely adherent PCBs on exposed surfaces. With regard to determinations regarding management under USEPA's specific regulations for PCBs (40 CFR, Part 761), bulk analyses of porous materials are the relevant form of testing. The wipe samples were supplemental analyses serving to help characterize whether PCB-containing particulate was present on the exposed surfaces of waste containers or waste materials exposed in open containers in the Sortation Area.

Field activities to collect samples were performed at the Indianapolis Return Center on September 4 and 5, 2014 and samples were subsequently shipped for laboratory analysis. The results obtained were compared to current regulatory criteria to provide information regarding the goal listed above.

2.1 Sampling Strategy

The sampling plan was designed to collect samples reflecting a representative group of 1) waste management containers (55-gallon drums and cardboard boxes) expected to be shipped off-site in the course of managing wastes, and 2) exposed items in the Sortation Area that would be expected to be shipped out for disposal or recycling.

The plan included 10 wipe samples and 5 bulk samples from items in the Sortation Area following a protocol intended to specifically determine whether the presence of PCBs on exposed surfaces could interfere with normal waste handling. The following types of samples were collected:

- 5 wipe samples – top of closed drums and boxes containing waste items
- 5 wipe samples – top of exposed waste items in open boxes or on pallets
- 3 bulk samples – cardboard boxes used to contain waste items
- 2 bulk samples – wooden pallets used for shipping

Containers and items located in different portions of the Sortation Area were selected. Sample locations are shown on Figure 2.

2.2 Sampling Methods

The PCB wipe and bulk sampling followed the protocols developed by the Occupational Safety and Health Administration (OSHA) and USEPA.

Surface wipe sampling was conducted using the standardized wipe methodology, which provides a quantitative estimate of surface dust and readily desorbed surface content by wiping a known surface area (10 centimeters [cm] x 10 cm square, i.e., 100 square centimeters [cm²]). The surface area sampled for each item was 100 cm². The 100 cm² value approximates the surface area of an adult's palm. Thus, the amount of contaminant in a 100 cm² sample could potentially be transferred to a person's hand upon contact.

ENVIRON personnel donned a clean pair of nitrile gloves for each separate dust wipe sample. A new 10 cm x 10 cm cardboard template was used to define the sample area and also to minimize the potential for cross-contamination. A laboratory-provided gauze pad was used to collect the surface dust sample. The gauze was removed from its packaging and wetted with approximately 1-2 milliliters (ml) of wetting agent (hexane). The pad was then used to wipe the defined area surface using an overlapping "S" pattern in a horizontal direction. The wipe was folded in half, used side in, and the defined area was wiped using an overlapping "S" pattern in a vertical direction. The wipe was folded, used side in, and placed in a pre-cleaned 30-ml glass vial provided by the laboratory. Sample containers were labeled and packed on ice for shipment to the laboratory.

The exposed surfaces of bulk samples collected for analysis were NOT pre-cleaned prior to collection and these items were not wipe sampled in addition to collecting the bulk sample. The samples were collected in a manner consistent with USEPA requirements for sampling of porous, bulk materials for determining requirements related to disposal of PCB items.

ENVIRON personnel donned a clean pair of nitrile gloves for each separate bulk sample. Box cutters were used to cut cardboard pieces several square inches in size from the boxes used to hold waste items. Samples were folded and placed in pre-cleaned 4 oz. glass jars provided by the laboratory. For samples from the pallets, fragments of wood several inches long were removed from the upper surfaces of pallet deck board from pallets sitting on the concrete floor. Tools were cleaned with distilled water and IPA between samples. Sample containers were labeled and packed on ice for shipment to the laboratory.

For quality control purposes, a duplicate wipe sample and a duplicate bulk sample were collected in the Sortation Area. During ENVIRON's investigations, blank samples were also collected for quality control purposes including 1 field blank of unwetted gauze, 1 equipment blank of gauze used to wipe a cleaned tool, and 1 equipment blank of gauze used to wipe a new 10 cm x 10 cm template and a sample of unwetted gauze as a media blank for bulk sample analysis.

Samples were recorded on chain-of-custody (COC) documentation and photographs were taken of sample locations to document the sampling process described above.

Samples were submitted under chain-of-custody protocol to ALS Environmental (ALS) in Salt Lake City, Utah and PCB analysis for wipe samples using EPA method 8082 by Gas Chromatography (GC) was conducted at this location. ALS's Salt Lake City laboratory shipped all bulk samples to ALS Laboratories in Holland, Michigan for PCB analysis using EPA method 8082 by GC. ALS is certified under the National Environmental Laboratory Accreditation Program (NELAP).

2.3 Investigation Derived Waste

Waste generated during sample collection was contained in a 55-gallon drum. The drum was labeled, sealed, and stored onsite in the southeast corner of the building pending receipt of analytical results to evaluate disposal options.

2.4 Health and Safety

All field activities were performed in accordance with a site-specific health and safety plan (HASP) developed for this Facility. The HASP was prepared in accordance with Chapter 29 CFR, 1910.120 to ensure that field work implemented by the ENVIRON project team was in accordance with applicable health and safety protocols.

3 Sampling Results

Results from ENVIRON's September 2014 field activities are summarized below and provided in the tables below and attached figures.

Samples were analyzed for PCBs as Aroclor mixtures. The only Aroclor profile match reported was for Aroclor 1260 from bulk samples from two items. All results discussed below were reported as concentrations of Aroclor 1260.

3.1 Surface Wipe Sampling

ENVIRON collected surface wipe samples from the exposed surfaces of 10 items in the Sortation Area.

- No PCBs were detectable on any wipe sample from the Sortation Area (i.e., < 0.1 µg/100 cm²).

The reporting limit for wipe samples was 0.1 µg/wipe, corresponding to 0.1 µg/100 cm². Table 1 includes a description of each item sampled to illustrate the various types of surfaces evaluated.

Table 1: Wipe Sample Item Descriptions

Sample No.	Description of Item	Aroclor 1260 (µg/100cm ²)
090414-W-078	Top of closed drum marked "Oxidizer"	ND
090414-W-080	Top of closed drum marked "Hazardous Waste"	ND
090414-W-081	Top of closed drum marked "Non-RCRA Waste"	ND
090414-W-082	Top of closed drum marked "Universal Waste"	ND
090414-W-079	Cardboard carton containing bags of pesticide	ND
090414-W-072 090414-W-075	Plastic stacking crates on pallet for disposal (duplicate collected)	ND
090414-W-073	Top of bags of fertilizer stored in area marked "FIFRA Solids"	ND
090414-W-074	Out-of-service security monitors on pallet for disposal	ND
090414-W-076	Paperboard box containing gas cylinders on pallet	ND
090414-W-077	Out-of-service fluorescent light ballasts stored in open carton	ND

None of the exposed surfaces of containers used to collect wastes or waste items stored in open containers sampled had detectable levels of loose surficial material (e.g., dust) containing PCBs, or PCBs that were loosely adherent to the surface and extractable via the wiping procedure. The laboratory achieved a sensitive detection limit of 0.1 µg/100 cm² for the wipe samples.

3.2 Bulk Sampling

ENVIRON collected bulk samples from 5 items in the Sortation Area that would be expected to be shipped out in conjunction with transfer of wastes to another location. These items were chosen to allow evaluation of whether such items could be subject to PCB management requirements, in addition to the routine waste management requirements for various types of wastes.

- Samples from 2 items had detectable concentrations of PCBs matching the Aroclor 1260 profile and ranging from 0.033 – 1.2 ppm

The reporting limits for the bulk samples ranged from 0.10 – 0.16 ppm.

The sampled items are described in Table 2.

Table 2: Summary of Bulk Sample Results

Sample No.	Description of Item	Aroclor 1260 mg/kg (ppm)
090414-B-082	Cardboard box containing keys for disposal	ND
090414-B-083	Cardboard box lid (box contains used lead and steel weights)	ND
090414-B-078	Wooden pallet deck – containing FIFRA Waste	ND
090414-B-079	Wooden pallet deck – containing Universal Waste	0.33
090414-B-080	Cardboard cover over forklift battery (duplicates collected)	1.2
090414-B-081		0.9

PCBs were detected in one of three cardboard bulk samples and one of 2 wood pallet bulk samples from the Sortation Area. The locations of the items with detectable PCB concentrations in bulk samples are shown on Figure 3.

4 Interpretations and Conclusions

The sampling of waste containers and items in open containers being managed as different types of waste were evaluated to determine whether potential regulatory requirements for management and disposal of materials relating to USEPA's PCB regulations (40 CFR, Part 761) could be applicable in addition to the waste management protocols routinely used by the waste management contractor. The bulk sampling results are directly applicable to requirements for management of PCB items since the exposed surfaces of paperboard/cardboard and wood are porous materials and they were characterized via bulk samples per USEPA requirements. The wipe samples provided information regarding the potential presence of particulate containing PCBs or adsorption that could affect the exposed material such that its waste characteristics might be altered or mixed waste provisions could apply.

4.1 Wipe Sampling

PCBs were not detected on any of the exposed surfaces of waste containers or waste items sampled in the Sortation Area. These results support the conclusion that there is no significant potential for waste items or waste containers managed in this area to have surficial particulate that could lead to a modified waste characterization or requirements to manage the wastes pursuant to the PCB regulations.

4.2 Bulk Sampling

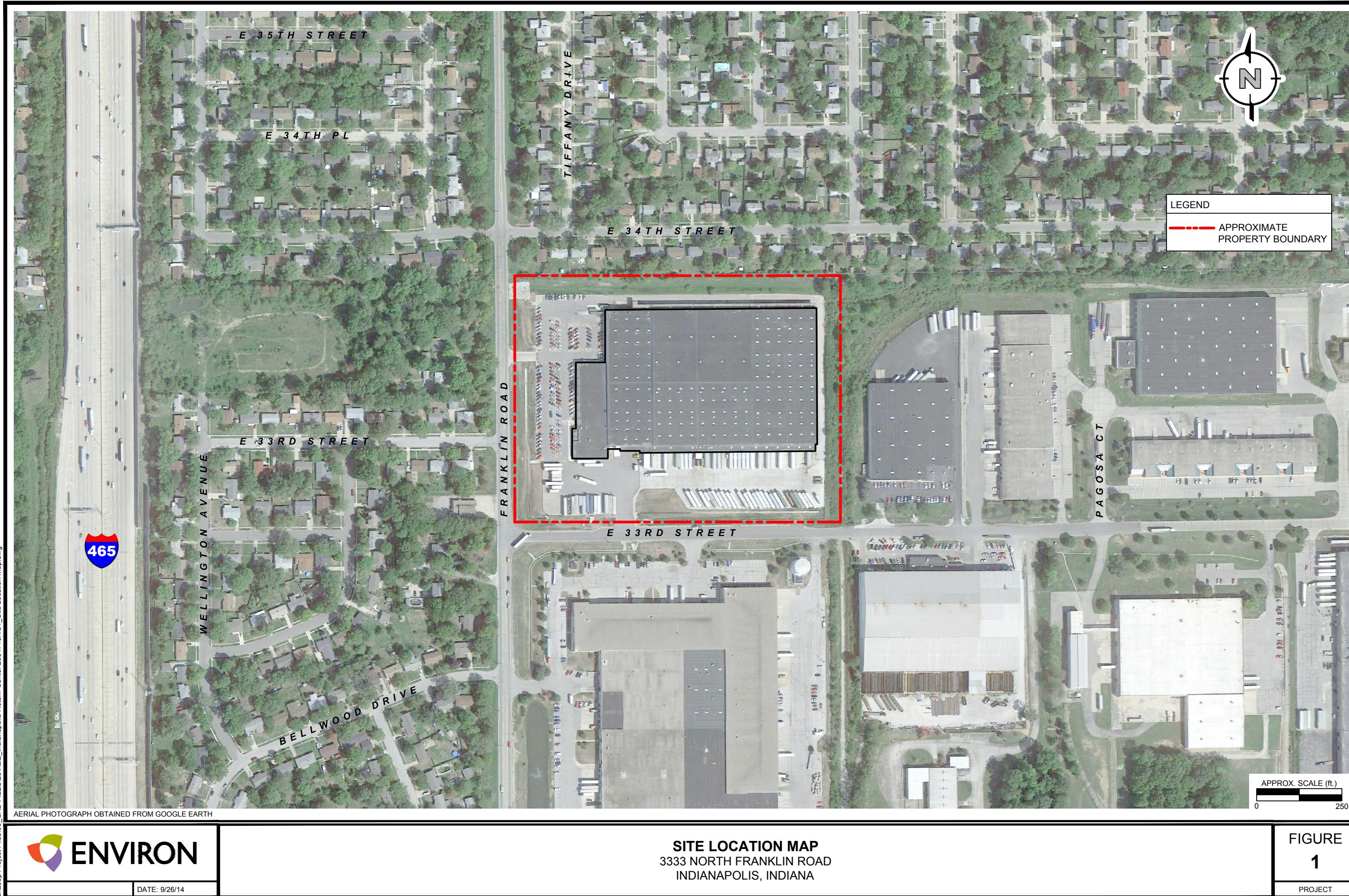
For the bulk sampling results, the key regulatory comparison is a concentration of 50 ppm (mg/kg) PCB concentration. Items with PCB concentrations at or above this value would require specialized management and disposal strategies pursuant to 40 CFR, Part 761. None of the results for items stored in the Sortation Area or used to contain or ship waste items approach this value. With a maximum concentration of 1.2 ppm PCBs found on the cardboard cover affixed to a forklift battery, there is no requirement to manage any of the sampled items pursuant to PCB regulations.

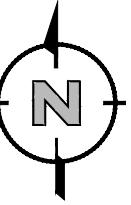
4.3 Conclusions

Samples from the waste management containers and items stored at the Sortation Area for waste handling were evaluated to determine whether PCBs in the building could result in the need to modify waste management procedures or manage any of the materials pursuant to PCB regulations.

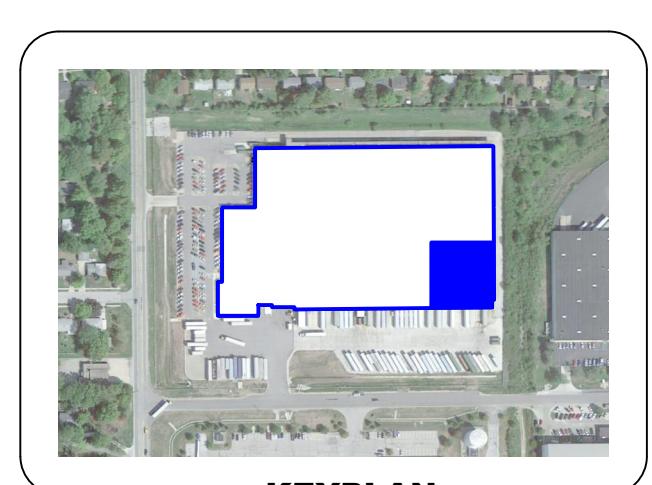
The results obtained support the conclusion that concentrations of PCBs on waste items from conditions in the building do not require additional or modified waste handling. The concentrations of PCBs found were below 50 ppm. The lack of detectable PCB accumulation via surficial particulate on exposed surfaces further supports this conclusion.

Figures





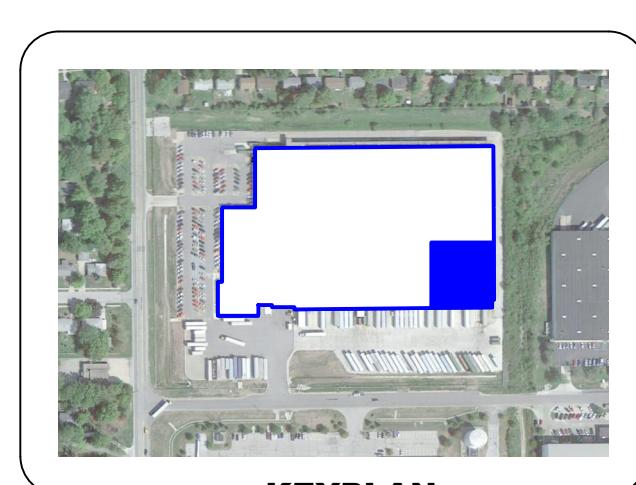
LEGEND	
	BULK SAMPLE
	WIPE SAMPLE



KEYPLAN



LEGEND
● BULK SAMPLE
○ BULK SAMPLE LOCATIONS WITH NON-DETECT ANALYTICAL RESULT
● WIPE SAMPLE LOCATIONS WITH NON-DETECT ANALYTICAL RESULT



Appendix A

Tabulation of Testing Results

Wipe Samples - Sortation (Waste Storage)

Sample Number	Sample Location	Item Sampled	Analytical Result Aroclor 1260 ($\mu\text{g}/100 \text{ cm}^2$)	Detection Limit Aroclor 1260 ($\mu\text{g}/100 \text{ cm}^2$)	Notes
090414-W-030	BLANK	FIELD BLANK	ND	0.1	FIELD BLANK
090414-W-072	Sortation Area (Waste Management), South, Center	Top of plastic stacking storage crates	ND	0.1	From non-containerized exposed items
090414-W-073	Sortation Area (Waste Management), East side, Center	Top of bags - FIFRA solids area, lawn care product bags	ND	0.1	From non-containerized exposed items
090414-W-074	Sortation Area (Waste Management), South side, East	Top of pile, computer monitors	ND	0.1	From non-containerized exposed items
090414-W-075	Sortation Area (Waste Management), South, Center	DUPLICATE sample of W-072	ND	0.1	FIELD DUPLICATE (W-072) From non-containerized exposed items
090414-W-076	Sortation Area (Waste Management), Center	Top surface of top box on pallet of boxed gas cylinders	ND	0.1	From non-containerized exposed items
090414-W-077	Sortation Area (Waste Management), South side, East	Fluorescent light ballasts stored in box	ND	0.1	From non-containerized exposed items
090414-W-078	Sortation Area (Waste Management), East side, North	Recycling drum top "Oxidizer"	ND	0.1	
090414-W-079	Sortation Area (Waste Management), Center	Hazardous pesticide cardboard carton	ND	0.1	
090414-W-080	Sortation Area (Waste Management), East side, Center	Hazard waste drum top	ND	0.1	
090414-W-081	Sortation Area (Waste Management), West side, north	Non-RCRA waste drum top	ND	0.1	
090414-W-082	Sortation Area (Waste Management), West side, center	Universal waste drum top	ND	0.1	

3333 North Franklin Road
Indianapolis, Indiana

Wipe Samples - Sortation (Waste Storage)

Sample Number	Sample Location	Item Sampled	Analytical Result Aroclor 1260 ($\mu\text{g}/100 \text{ cm}^2$)	Detection Limit Aroclor 1260 ($\mu\text{g}/100 \text{ cm}^2$)	Notes
090514-W-069	BLANK	EQUIPMENT BLANK deconned boxcutter	ND	0.1	EQUIPMENT BLANK
090514-W-070	BLANK	EQUIPMENT BLANK wetted clean gauze with hexane	ND	0.1	EQUIPMENT BLANK

Bulk Samples - Sortation (Waste Storage)

Sample Number	Sample Location	Item Sampled	Analytical Result Aroclor 1260	Detection Limit Aroclor 1260	Notes
090414-B-078	Sortation Area (Waste Management), East side, North	Fragments of wood - exposed bottom deck (i.e., top surface), FIFRA waste pallet	ND	0.120	
090414-B-079	Sortation Area (Waste Management), West side, South	Fragments of wood - top deck pallet, Universal waste pallet	0.33	0.100	
090414-B-080	Sortation Area (Waste Management), West side, South	Cardboard cover, Lead acid batteries (fork lift batteries)	1.2	0.160	
090414-B-081	Sortation Area (Waste Management), West side, South	DUPLICATE sample of B-080	0.9	0.130	FIELD DUPLICATE (B-080)
090414-B-082	Sortation Area (Waste Management), Center	Cardboard box containing keys	ND	0.110	
090414-B-083	Sortation Area (Waste Management), West side, South	Box top of box containing used lead & steel weights	ND	0.130	
090514-B-030	Bulk Media Blank	MEDIA BLANK clean gauze	ND	0.190	MEDIA BLANK

Appendix B
Laboratory Analyses



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Analysis: 8082 for Aroclors

Preparation SOP #: OE-SW-3550

Analysis SOP #: OP-SW-8082

W/O: 1424801

HBN: 134335, 134334, 134371, 134390, 134394

Client: Environ Corporation

Matrix: Wipe

General Set Information: The field samples were received and batched for analysis.

Method Summary: Method 8082 was used to determine the concentrations of various Aroclors using dual capillary columns with electron capture detectors.

Sample Preparation: Each wipe was extracted with 10 ml hexane.

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: Samples 1424801056 (100x) and 1424801057 (100x) were reported from dilutions to get aroclor 1260 within calibration range.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank at levels above 1/2 lower reporting limit.

Surrogates: All surrogate recoveries were within established limits.

Laboratory Control Samples: All recoveries were within established limits.

Matrix Spike and Matrix Spike Duplicate: MS and MSD were not required.

Instrument QC:

Initial Calibration Verification: All initial calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996).

Continuing Calibration Verification: All continuing calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996)

NC/CAR: None.



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Sample Calculation: The Aroclors concentrations were determined by using average calibration factors and peak area. Surrogate concentrations were determined by interpolations from 2nd order regressions of standard responses (peak area) vs. concentrations. Final concentrations in ug/Wipe from the equation:

$$C_s = \frac{C_e \cdot V_e \cdot DF}{V_s}$$

where

- C_s = Analyte concentration in sample (ug/Wipe)
 C_e = Analyte concentration in extract (ug/mL)
 V_e = Final volume of extract (mL)
DF = Dilution Factor
 V_s = Wipe sample.

Miscellaneous Comments: None.



Jessica Helland, Chemist, 09/09/2014



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-030	Sampling Site: Indianapolis, IN	Collected: 09/04/2014		
Lab ID: 1424801030	Media: Wipe	Received: 09/05/2014		
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²			
Analysis Method - SW 8082				
Preparation: EPA 3550, Sonic Ext, Wipe Batch: ENVX/19840 (HBN: 134228) Prepared: 09/05/2014	Weight/Volume Initial: 1 wipe Final: 10 mL	Analysis: SW 8082, Wipe Batch: EGC/5226 (HBN: 134334) Analyzed: 09/07/2014 00:00		
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**
Client: Environ Corporation
Project Manager: Paul E. Pope

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alsit.lab@ALSGlobal.com
Web: www.alssl.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACCLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACCLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACCLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< This testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Analysis: 8082 for Aroclors

Preparation SOP #: OE-SW-3550

Analysis SOP #: OP-SW-8082

W/O: 1424801

HBN: 134335, 134334, 134371, 134390, 134394

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Method Summary: Method 8082 was used to determine the concentrations of various Aroclors using dual capillary columns with electron capture detectors.

Sample Preparation: Each wipe was extracted with 10 ml hexane.

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: Samples 1424801056 (100x) and 1424801057 (100x) were reported from dilutions to get aroclor 1260 within calibration range.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank at levels above 1/2 lower reporting limit.

Surrogates: All surrogate recoveries were within established limits.

Laboratory Control Samples: All recoveries were within established limits.

Matrix Spike and Matrix Spike Duplicate: MS and MSD were not required.

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Initial Calibration Verification: All initial calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996).

Continuing Calibration Verification: All continuing calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996)

NC/CAR: None.



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Sample Calculation: The Aroclors concentrations were determined by using average calibration factors and peak area. Surrogate concentrations were determined by interpolations from 2nd order regressions of standard responses (peak area) vs. concentrations. Final concentrations in ug/Wipe from the equation:

$$C_s = \frac{C_e \cdot V_e \cdot DF}{V_s}$$

where

- | | | |
|-------|---|---|
| C_s | = | Analyte concentration in sample (ug/Wipe) |
| C_e | = | Analyte concentration in extract (ug/mL) |
| V_e | = | Final volume of extract (mL) |
| DF | = | Dilution Factor |
| V_s | = | Wipe sample. |

Miscellaneous Comments: None.



Jessica Helland, Chemist, 09/09/2014



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-072	Sampling Site: Indianapolis, IN	Collected: 09/04/2014		
Lab ID: 1424801058	Media: Wipe	Received: 09/05/2014		
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²			
Analysis Method - SW 8082				
Preparation: EPA 3550, Sonic Ext, Wipe Batch: ENVX/19846 (HBN: 134268) Prepared: 09/05/2014	Weight/Volume Initial: 1 wipe Final: 10 mL	Analysis: SW 8082, Wipe Batch: EGC/5229 (HBN: 134371) Analyzed: 09/07/2014 00:00		
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**
Client: Environ Corporation
Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-073	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801059	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03	
Batch: ENVX/19846 (HBN: 134268)	Initial: 1 wipe	Batch: EGC/5229 (HBN: 134371)	Percent Solid: NA	
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/07/2014 00:00	Report Basis: Wet	
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-074	Sampling Site: Indianapolis, IN	Collected: 09/04/2014		
Lab ID: 1424801060	Media: Wipe	Received: 09/05/2014		
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²			
Analysis Method - SW 8082				
Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe		
Batch: ENVX/19846 (HBN: 134268)	Initial: 1 wipe	Batch: EGC/5229 (HBN: 134371)		
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/07/2014 00:00		
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-075	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801061	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-076	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801062	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-077	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801063	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03	
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA	
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet	
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-078	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801064	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03	
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA	
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet	
Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-079	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801065	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-080	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801066	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-081	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801067	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-082	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801068	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19847 (HBN: 134270)	Initial: 1 wipe	Batch: EGC/5231 (HBN: 134390)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/08/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	



ANALYTICAL REPORT

Workorder: **34-1424801**
Client: Environ Corporation
Project Manager: Paul E. Pope

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alsit.lab@ALSGlobal.com
Web: www.alssl.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACCLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACCLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACCLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< This testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

Blank

MB: 409883			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409884						LCSD: 409885					
Analyzed: 09/07/2014 00:00						Analyzed: 09/07/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.55	5.00	91.0	75.0	125.0	4.40	88.1	3.30	0.0	35.0	
Aroclor 1232	4.77	5.00	95.3	75.0	125.0	4.78	95.6	0.316	0.0	35.0	
Aroclor 1016	5.29	5.00	106	75.0	129.3	5.28	106	0.131	0.0	35.0	
Aroclor 1242	4.93	5.00	98.6	75.0	125.0	4.97	99.5	0.876	0.0	35.0	
Aroclor 1248	5.01	5.00	100	75.0	125.0	4.98	99.5	0.651	0.0	35.0	
Aroclor 1254	5.25	5.00	105	75.0	125.0	5.20	104	1.05	0.0	35.0	
Aroclor 1260	5.09	5.00	102	67.7	129.9	5.03	101	1.24	0.0	35.0	
Aroclor 1262	5.10	5.00	102	75.0	125.0	5.07	101	0.647	0.0	35.0	
Aroclor 1268	6.22	5.00	124	75.0	125.0	6.24	125	0.376	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8 153.9		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801028	0.517	0.500	103
1424801023	0.526	0.500	105
1424801027	0.530	0.500	106
409885-LCSD	0.549	0.500	110
1424801038	0.520	0.500	104
1424801029	0.523	0.500	105
1424801033	0.521	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801030	0.530	0.500	106
1424801037	0.523	0.500	105
1424801034	0.526	0.500	105
1424801040	0.542	0.500	108
1424801024	0.517	0.500	104
409884-LCS	0.546	0.500	109
1424801039	0.518	0.500	104
409883-MB	0.536	0.500	107
1424801021	0.521	0.500	104
1424801035	0.520	0.500	104
1424801036	0.515	0.500	103
1424801026	0.519	0.500	104
1424801022	0.523	0.500	105
1424801031	0.505	0.500	101
1424801032	0.524	0.500	105
1424801025	0.517	0.500	103



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland

Analyst

Mila V. Potekhin

Peer Review

9/8/2014

Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

Blank

MB: 409842			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409843	LCSD: 409844									
Analyzed: 09/07/2014 00:00	Analyzed: 09/07/2014 00:00									
Dilution: 1	Dilution: 1									
Units: ug/sample	Units: ug/sample									
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Aroclor 1221	4.18	5.00	83.7	75.0	125.0	4.32	86.4	3.19	0.0	35.0
Aroclor 1232	4.59	5.00	91.9	75.0	125.0	4.66	93.3	1.52	0.0	35.0
Aroclor 1016	4.97	5.00	99.5	75.0	129.3	5.18	104	4.00	0.0	35.0
Aroclor 1242	4.72	5.00	94.5	75.0	125.0	4.82	96.4	2.08	0.0	35.0
Aroclor 1248	4.72	5.00	94.4	75.0	125.0	4.86	97.3	3.03	0.0	35.0
Aroclor 1254	4.95	5.00	98.9	75.0	125.0	5.15	103	3.95	0.0	35.0
Aroclor 1260	4.80	5.00	96.0	67.7	129.9	5.05	101	5.04	0.0	35.0
Aroclor 1262	4.90	5.00	97.9	75.0	125.0	5.05	101	3.11	0.0	35.0
Aroclor 1268	6.05	5.00	121	75.0	125.0	5.65	113	6.78	0.0	35.0

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801015	0.527	0.500	105
1424801017	0.532	0.500	106
1424801016	0.529	0.500	106
1424801008	0.532	0.500	106
1424801019	0.524	0.500	105
409842-MB	0.525	0.500	105
1424801006	0.535	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801005	0.521	0.500	104
409844-LCSD	0.537	0.500	107
1424801003	0.526	0.500	105
1424801014	0.551	0.500	110
1424801012	0.522	0.500	104
1424801018	0.524	0.500	105
1424801009	0.517	0.500	103
1424801011	0.513	0.500	103
409843-LCS	0.535	0.500	107
1424801013	0.504	0.500	101
1424801007	0.518	0.500	104
1424801001	0.521	0.500	104
1424801002	0.527	0.500	105
1424801020	0.521	0.500	104
1424801004	0.517	0.500	103
1424801010	0.522	0.500	105



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/8/2014
Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

Blank

MB: 409968			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409969						LCSD: 409970				
Analyzed: 09/07/2014 00:00						Analyzed: 09/07/2014 00:00				
Dilution: 1						Dilution: 1				
Units: ug/sample						Units: ug/sample				
Analyte	Result	Target	% Rec	QC Limits	Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.43	5.00	88.7	75.0	125.0	4.40	88.0	0.731	0.0	35.0
Aroclor 1232	4.59	5.00	91.8	75.0	125.0	4.57	91.4	0.410	0.0	35.0
Aroclor 1016	5.00	5.00	100	75.0	129.3	4.99	99.7	0.226	0.0	35.0
Aroclor 1242	4.73	5.00	94.6	75.0	125.0	4.74	94.9	0.304	0.0	35.0
Aroclor 1248	4.74	5.00	94.8	75.0	125.0	4.69	93.9	0.950	0.0	35.0
Aroclor 1254	4.86	5.00	97.3	75.0	125.0	4.81	96.3	1.04	0.0	35.0
Aroclor 1260	4.77	5.00	95.5	67.7	129.9	4.74	94.8	0.683	0.0	35.0
Aroclor 1262	4.90	5.00	98.0	75.0	125.0	4.74	94.7	3.38	0.0	35.0
Aroclor 1268	5.78	5.00	116	75.0	125.0	5.80	116	0.221	0.0	35.0

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801059	0.525	0.500	105
1424801048	0.515	0.500	103
1424801046	0.513	0.500	103
1424801058	0.496	0.500	99.1
409970-LCSD	0.530	0.500	106
1424801049	0.517	0.500	103
1424801052	0.522	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801054	0.523	0.500	105
1424801060	0.524	0.500	105
1424801056	0.499	0.500	99.9
1424801042	0.509	0.500	102
1424801047	0.511	0.500	102
1424801050	0.529	0.500	106
1424801057	0.515	0.500	103
1424801041	0.512	0.500	102
1424801051	0.532	0.500	106
1424801044	0.508	0.500	102
409969-LCS	0.535	0.500	107
1424801055	0.518	0.500	104
1424801043	0.515	0.500	103
1424801053	0.524	0.500	105
1424801045	0.514	0.500	103
409968-MB	0.522	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland

Analyst

Mila V. Potekhin

Peer Review

9/8/2014

Date

Symbols and Definitions

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RPD - Relative % Difference (Spike / Spike Duplicate)
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QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

Blank

MB: 409974			
Analyzed: 09/08/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409975						LCSD: 409976					
Analyzed: 09/08/2014 00:00						Analyzed: 09/08/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.51	5.00	90.2	75.0	125.0	4.54	90.7	0.524	0.0	35.0	
Aroclor 1232	4.37	5.00	87.5	75.0	125.0	4.43	88.5	1.17	0.0	35.0	
Aroclor 1016	4.95	5.00	99.0	75.0	129.3	4.96	99.3	0.272	0.0	35.0	
Aroclor 1242	4.73	5.00	94.6	75.0	125.0	4.83	96.6	2.06	0.0	35.0	
Aroclor 1248	4.59	5.00	91.8	75.0	125.0	4.64	92.7	0.997	0.0	35.0	
Aroclor 1254	4.49	5.00	89.7	75.0	125.0	4.57	91.4	1.84	0.0	35.0	
Aroclor 1260	4.51	5.00	90.1	67.7	129.9	4.63	92.6	2.67	0.0	35.0	
Aroclor 1262	4.29	5.00	85.8	75.0	125.0	4.42	88.4	2.96	0.0	35.0	
Aroclor 1268	4.87	5.00	97.3	75.0	125.0	5.01	100	2.82	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801069	0.524	0.500	105
1424801064	0.535	0.500	107
1424801065	0.528	0.500	106
1424801066	0.511	0.500	102
1424801068	0.508	0.500	102
1424801075	0.514	0.500	103
409975-LCS	0.537	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801079	0.527	0.500	105
1424801061	0.503	0.500	101
1424801063	0.531	0.500	106
1424801078	0.529	0.500	106
1424801071	0.516	0.500	103
409974-MB	0.530	0.500	106
1424801074	0.527	0.500	105
1424801062	0.524	0.500	105
1424801076	0.513	0.500	103
1424801080	0.504	0.500	101
1424801070	0.498	0.500	99.7
1424801073	0.503	0.500	101
409976-LCSD	0.543	0.500	109
1424801072	0.510	0.500	102
1424801077	0.506	0.500	101
1424801067	0.517	0.500	103



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/9/2014
Date

Symbols and Definitions

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Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

Blank

MB: 409977			
Analyzed: 09/08/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409978						LCSD: 409979					
Analyzed: 09/08/2014 00:00						Analyzed: 09/08/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.68	5.00	93.6	75.0	125.0	4.65	93.0	0.624	0.0	35.0	
Aroclor 1232	4.36	5.00	87.2	75.0	125.0	4.32	86.3	1.05	0.0	35.0	
Aroclor 1016	4.84	5.00	96.8	75.0	129.3	4.78	95.7	1.17	0.0	35.0	
Aroclor 1242	4.74	5.00	94.8	75.0	125.0	4.74	94.7	0.0865	0.0	35.0	
Aroclor 1248	4.63	5.00	92.6	75.0	125.0	4.60	92.0	0.563	0.0	35.0	
Aroclor 1254	4.55	5.00	91.1	75.0	125.0	4.51	90.3	0.849	0.0	35.0	
Aroclor 1260	4.58	5.00	91.6	67.7	129.9	4.53	90.6	1.12	0.0	35.0	
Aroclor 1262	4.51	5.00	90.3	75.0	125.0	4.42	88.5	2.02	0.0	35.0	
Aroclor 1268	5.15	5.00	103	75.0	125.0	5.18	104	0.614	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801085	0.531	0.500	106
409978-LCS	0.541	0.500	108
1424801082	0.526	0.500	105
1424801084	0.521	0.500	104
1424801081	0.518	0.500	104
1424801086	0.516	0.500	103
409977-MB	0.535	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801083	0.506	0.500	101
409979-LCSD	0.544	0.500	109



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/9/2014
Date

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Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

Blank

MB: 409883			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409884						LCSD: 409885					
Analyzed: 09/07/2014 00:00						Analyzed: 09/07/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.55	5.00	91.0	75.0	125.0	4.40	88.1	3.30	0.0	35.0	
Aroclor 1232	4.77	5.00	95.3	75.0	125.0	4.78	95.6	0.316	0.0	35.0	
Aroclor 1016	5.29	5.00	106	75.0	129.3	5.28	106	0.131	0.0	35.0	
Aroclor 1242	4.93	5.00	98.6	75.0	125.0	4.97	99.5	0.876	0.0	35.0	
Aroclor 1248	5.01	5.00	100	75.0	125.0	4.98	99.5	0.651	0.0	35.0	
Aroclor 1254	5.25	5.00	105	75.0	125.0	5.20	104	1.05	0.0	35.0	
Aroclor 1260	5.09	5.00	102	67.7	129.9	5.03	101	1.24	0.0	35.0	
Aroclor 1262	5.10	5.00	102	75.0	125.0	5.07	101	0.647	0.0	35.0	
Aroclor 1268	6.22	5.00	124	75.0	125.0	6.24	125	0.376	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801028	0.517	0.500	103
1424801023	0.526	0.500	105
1424801027	0.530	0.500	106
409885-LCSD	0.549	0.500	110
1424801038	0.520	0.500	104
1424801029	0.523	0.500	105
1424801033	0.521	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801030	0.530	0.500	106
1424801037	0.523	0.500	105
1424801034	0.526	0.500	105
1424801040	0.542	0.500	108
1424801024	0.517	0.500	104
409884-LCS	0.546	0.500	109
1424801039	0.518	0.500	104
409883-MB	0.536	0.500	107
1424801021	0.521	0.500	104
1424801035	0.520	0.500	104
1424801036	0.515	0.500	103
1424801026	0.519	0.500	104
1424801022	0.523	0.500	105
1424801031	0.505	0.500	101
1424801032	0.524	0.500	105
1424801025	0.517	0.500	103



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19840 (HBN: 134228)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5226 (HBN: 134334)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland

Analyst

Mila V. Potekhin

Peer Review

9/8/2014

Date

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Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

Blank

MB: 409842			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409843	LCSD: 409844									
Analyzed: 09/07/2014 00:00	Analyzed: 09/07/2014 00:00									
Dilution: 1	Dilution: 1									
Units: ug/sample	Units: ug/sample									
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Aroclor 1221	4.18	5.00	83.7	75.0	125.0	4.32	86.4	3.19	0.0	35.0
Aroclor 1232	4.59	5.00	91.9	75.0	125.0	4.66	93.3	1.52	0.0	35.0
Aroclor 1016	4.97	5.00	99.5	75.0	129.3	5.18	104	4.00	0.0	35.0
Aroclor 1242	4.72	5.00	94.5	75.0	125.0	4.82	96.4	2.08	0.0	35.0
Aroclor 1248	4.72	5.00	94.4	75.0	125.0	4.86	97.3	3.03	0.0	35.0
Aroclor 1254	4.95	5.00	98.9	75.0	125.0	5.15	103	3.95	0.0	35.0
Aroclor 1260	4.80	5.00	96.0	67.7	129.9	5.05	101	5.04	0.0	35.0
Aroclor 1262	4.90	5.00	97.9	75.0	125.0	5.05	101	3.11	0.0	35.0
Aroclor 1268	6.05	5.00	121	75.0	125.0	5.65	113	6.78	0.0	35.0

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8 153.9		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801015	0.527	0.500	105
1424801017	0.532	0.500	106
1424801016	0.529	0.500	106
1424801008	0.532	0.500	106
1424801019	0.524	0.500	105
409842-MB	0.525	0.500	105
1424801006	0.535	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801005	0.521	0.500	104
409844-LCSD	0.537	0.500	107
1424801003	0.526	0.500	105
1424801014	0.551	0.500	110
1424801012	0.522	0.500	104
1424801018	0.524	0.500	105
1424801009	0.517	0.500	103
1424801011	0.513	0.500	103
409843-LCS	0.535	0.500	107
1424801013	0.504	0.500	101
1424801007	0.518	0.500	104
1424801001	0.521	0.500	104
1424801002	0.527	0.500	105
1424801020	0.521	0.500	104
1424801004	0.517	0.500	103
1424801010	0.522	0.500	105



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19839 (HBN: 134218)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5227 (HBN: 134335)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/8/2014
Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

Blank

MB: 409968			
Analyzed: 09/07/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409969						LCSD: 409970					
Analyzed: 09/07/2014 00:00						Analyzed: 09/07/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.43	5.00	88.7	75.0	125.0	4.40	88.0	0.731	0.0	35.0	
Aroclor 1232	4.59	5.00	91.8	75.0	125.0	4.57	91.4	0.410	0.0	35.0	
Aroclor 1016	5.00	5.00	100	75.0	129.3	4.99	99.7	0.226	0.0	35.0	
Aroclor 1242	4.73	5.00	94.6	75.0	125.0	4.74	94.9	0.304	0.0	35.0	
Aroclor 1248	4.74	5.00	94.8	75.0	125.0	4.69	93.9	0.950	0.0	35.0	
Aroclor 1254	4.86	5.00	97.3	75.0	125.0	4.81	96.3	1.04	0.0	35.0	
Aroclor 1260	4.77	5.00	95.5	67.7	129.9	4.74	94.8	0.683	0.0	35.0	
Aroclor 1262	4.90	5.00	98.0	75.0	125.0	4.74	94.7	3.38	0.0	35.0	
Aroclor 1268	5.78	5.00	116	75.0	125.0	5.80	116	0.221	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801059	0.525	0.500	105
1424801048	0.515	0.500	103
1424801046	0.513	0.500	103
1424801058	0.496	0.500	99.1
409970-LCSD	0.530	0.500	106
1424801049	0.517	0.500	103
1424801052	0.522	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801054	0.523	0.500	105
1424801060	0.524	0.500	105
1424801056	0.499	0.500	99.9
1424801042	0.509	0.500	102
1424801047	0.511	0.500	102
1424801050	0.529	0.500	106
1424801057	0.515	0.500	103
1424801041	0.512	0.500	102
1424801051	0.532	0.500	106
1424801044	0.508	0.500	102
409969-LCS	0.535	0.500	107
1424801055	0.518	0.500	104
1424801043	0.515	0.500	103
1424801053	0.524	0.500	105
1424801045	0.514	0.500	103
409968-MB	0.522	0.500	104



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19846 (HBN: 134268)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5229 (HBN: 134371)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/8/2014
Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
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RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

Blank

MB: 409974			
Analyzed: 09/08/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409975						LCSD: 409976					
Analyzed: 09/08/2014 00:00						Analyzed: 09/08/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.51	5.00	90.2	75.0	125.0	4.54	90.7	0.524	0.0	35.0	
Aroclor 1232	4.37	5.00	87.5	75.0	125.0	4.43	88.5	1.17	0.0	35.0	
Aroclor 1016	4.95	5.00	99.0	75.0	129.3	4.96	99.3	0.272	0.0	35.0	
Aroclor 1242	4.73	5.00	94.6	75.0	125.0	4.83	96.6	2.06	0.0	35.0	
Aroclor 1248	4.59	5.00	91.8	75.0	125.0	4.64	92.7	0.997	0.0	35.0	
Aroclor 1254	4.49	5.00	89.7	75.0	125.0	4.57	91.4	1.84	0.0	35.0	
Aroclor 1260	4.51	5.00	90.1	67.7	129.9	4.63	92.6	2.67	0.0	35.0	
Aroclor 1262	4.29	5.00	85.8	75.0	125.0	4.42	88.4	2.96	0.0	35.0	
Aroclor 1268	4.87	5.00	97.3	75.0	125.0	5.01	100	2.82	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801069	0.524	0.500	105
1424801064	0.535	0.500	107
1424801065	0.528	0.500	106
1424801066	0.511	0.500	102
1424801068	0.508	0.500	102
1424801075	0.514	0.500	103
409975-LCS	0.537	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801079	0.527	0.500	105
1424801061	0.503	0.500	101
1424801063	0.531	0.500	106
1424801078	0.529	0.500	106
1424801071	0.516	0.500	103
409974-MB	0.530	0.500	106
1424801074	0.527	0.500	105
1424801062	0.524	0.500	105
1424801076	0.513	0.500	103
1424801080	0.504	0.500	101
1424801070	0.498	0.500	99.7
1424801073	0.503	0.500	101
409976-LCSD	0.543	0.500	109
1424801072	0.510	0.500	102
1424801077	0.506	0.500	101
1424801067	0.517	0.500	103



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19847 (HBN: 134270)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5231 (HBN: 134390)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/9/2014
Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
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- - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

Blank

MB: 409977			
Analyzed: 09/08/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 409978						LCSD: 409979					
Analyzed: 09/08/2014 00:00						Analyzed: 09/08/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.68	5.00	93.6	75.0	125.0	4.65	93.0	0.624	0.0	35.0	
Aroclor 1232	4.36	5.00	87.2	75.0	125.0	4.32	86.3	1.05	0.0	35.0	
Aroclor 1016	4.84	5.00	96.8	75.0	129.3	4.78	95.7	1.17	0.0	35.0	
Aroclor 1242	4.74	5.00	94.8	75.0	125.0	4.74	94.7	0.0865	0.0	35.0	
Aroclor 1248	4.63	5.00	92.6	75.0	125.0	4.60	92.0	0.563	0.0	35.0	
Aroclor 1254	4.55	5.00	91.1	75.0	125.0	4.51	90.3	0.849	0.0	35.0	
Aroclor 1260	4.58	5.00	91.6	67.7	129.9	4.53	90.6	1.12	0.0	35.0	
Aroclor 1262	4.51	5.00	90.3	75.0	125.0	4.42	88.5	2.02	0.0	35.0	
Aroclor 1268	5.15	5.00	103	75.0	125.0	5.18	104	0.614	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801085	0.531	0.500	106
409978-LCS	0.541	0.500	108
1424801082	0.526	0.500	105
1424801084	0.521	0.500	104
1424801081	0.518	0.500	104
1424801086	0.516	0.500	103
409977-MB	0.535	0.500	107



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1424801083	0.506	0.500	101
409979-LCSD	0.544	0.500	109



Quality Control Sample Batch Report

Analysis Information

Workorder: 1424801

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19848 (HBN: 134271)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5232 (HBN: 134394)
Analyzed By: Jessica Helland

QC Data Approved and Reviewed by

Jessica Helland
Analyst

Mila V. Potekhin
Peer Review

9/9/2014
Date

Symbols and Definitions

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- ▲ - Sample result is greater than 4 times the spike added
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RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Analysis: 8082 for Aroclors

Preparation SOP #: OE-SW-3550

Analysis SOP #: OP-SW-8082

W/O: 1425222

HBN: 134548

General Set Information: The field samples were received and batched for analysis.

Method Summary: Method 8082 was used to determine the concentrations of various Aroclors using dual capillary columns with electron capture detectors.

Sample Preparation: Each wipe was extracted with 10 ml hexane.

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: no dilutions were required.

Method and Sample QC data:

Method Blank(s): Method analytes were not detected in the method blank at levels above 1/2 lower reporting limit.

Surrogates: All surrogate recoveries were within established limits.

Laboratory Control Samples: Aroclor 1232 failed low on both the LCS and LCSD. NC/CAR 0836 was initiated.

Matrix Spike and Matrix Spike Duplicate: MS and MSD were not required.

Instrument QC:

Initial Calibration Verification: All initial calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996).

Continuing Calibration Verification: All continuing calibration verification standards passed the percent difference criteria described in 8000B (rev. 1, Dec 1996)

NC/CAR: 0836



ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Case Narrative

Sample Calculation: The Aroclors concentrations were determined by using average calibration factors and peak area. Surrogate concentrations were determined by

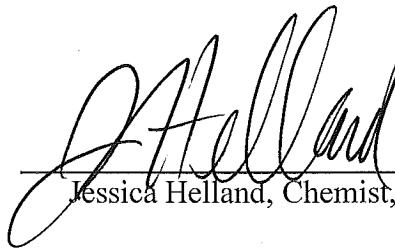
- ↳ interpolations from 2nd order regressions of standard responses (peak area) vs. concentrations. Final concentrations in ug/Wipe from the equation:

$$C_s = \frac{C_e \cdot V_e \cdot DF}{V_s}$$

where

C_s	=	Analyte concentration in sample (ug/Wipe)
C_e	=	Analyte concentration in extract (ug/mL)
V_e	=	Final volume of extract (mL)
DF	=	Dilution Factor
V_s	=	Wipe sample.

Miscellaneous Comments: None.



Jessica Helland, Chemist, 09/10/2014



ANALYTICAL REPORT

Workorder: **34-1425222**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090514-W-069	Sampling Site: Indianapolis, IN	Collected: 09/05/2014
Lab ID: 1425222015	Media: Wipe	Received: 09/06/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE30
Batch: ENVX/19866 (HBN: 134426)	Initial: 1 wipe	Batch: EGC/5239 (HBN: 134548)	Percent Solid: NA
Prepared: 09/09/2014	Final: 10 mL	Analyzed: 09/09/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090514-W-070	Sampling Site: Indianapolis, IN	Collected: 09/05/2014
Lab ID: 1425222016	Media: Wipe	Received: 09/06/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE30
Batch: ENVX/19866 (HBN: 134426)	Initial: 1 wipe	Batch: EGC/5239 (HBN: 134548)	Percent Solid: NA
Prepared: 09/09/2014	Final: 10 mL	Analyzed: 09/09/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Comments

Quality Control: SW 8082 - (HBN: 134548)

Aroclor 1232 fails low in both the LCS and LCSD. (72.6 and 74.1 respectively) The lower limit is 75. All instrument QC passes. Samples are wipes and cannot be re-extracted. NC/CAR 836 was initiated.



ANALYTICAL REPORT

Workorder: **34-1425222**
Client: Environ Corporation
Project Manager: Paul E. Pope

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
SW 8082	/S/ Jessica Helland 09/10/2014 12:09	/S/ Mila V. Potekhin 09/10/2014 14:09

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alsit.lab@ALSGlobal.com
Web: www.alsslccom

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACCLASS (DoD ELAP) Utah (NELAC) Nevada Oklahoma Iowa Florida (TNI) Texas (TNI)	ADE-1420 DATA1 UT00009 UT00009 IA# 376 E871067 T104704456-11-1	http://www.aclasscorp.com http://health.utah.gov/lab/labimp/ http://ndep.nv.gov/bsdw/labservice.htm http://www.deq.state.ok.us/CSDnew/ http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx http://www.dep.state.fl.us/labs/bars/sas/qa/ http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing: CPSC Soil, Dust, Paint ,Air	ACCLASS (ISO 17025, CPSC) AIHA (ISO 17025, AIHA ELLAP and NLLAP)	ADE-1420 101574	http://www.aclasscorp.com http://www.aihaaccreditedlabs.org
Dietary Supplements	ACCLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com



ANALYTICAL REPORT

Workorder: **34-1425222**

Client: Environ Corporation

Project Manager: Paul E. Pope

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.

RL = Reporting Limit, a verified value of method/media/instrument sensitivity.

CRDL = Contract Required Detection Limit

Reg. Limit = Regulatory Limit.

ND = Not Detected, testing result not detected above the MDL or RL.

< This testing result is less than the numerical value.

** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.

J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.

B = Qualifier indicates that the analyte was detected in the blank.

E = Qualifier indicates that the analyte result exceeds calibration range.

P = Qualifier indicates that the RPD between the two columns is greater than 40%.



Quality Control Sample Batch Report

Analysis Information

Workorder: 1425222

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19866 (HBN: 134426)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5239 (HBN: 134548)
Analyzed By: Jessica Helland

Blank

MB: 410435			
Analyzed: 09/09/2014 00:00			
Units: ug/sample			
Analyte	Result	MDL	RL
Aroclor 1016	ND	0.0252	0.100
Aroclor 1260	ND	0.0224	0.100
Aroclor 1221	ND	0.0304	0.200
Aroclor 1232	ND	0.0129	0.100
Aroclor 1242	ND	0.00612	0.100
Aroclor 1248	ND	0.0157	0.100
Aroclor 1254	ND	0.0113	0.100
Aroclor 1268	ND	NA	0.100
Aroclor 1262	ND	NA	0.100

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 410436						LCSD: 410437					
Analyzed: 09/09/2014 00:00						Analyzed: 09/09/2014 00:00					
Dilution: 1						Dilution: 1					
Units: ug/sample						Units: ug/sample					
Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits		
Aroclor 1221	4.09	5.00	81.8	75.0	125.0	4.11	82.2	0.417	0.0	35.0	
Aroclor 1232	3.63	5.00	* 72.6	75.0	125.0	3.71	* 74.1	2.10	0.0	35.0	
Aroclor 1016	3.96	5.00	79.1	75.0	129.3	3.98	79.5	0.522	0.0	35.0	
Aroclor 1242	4.03	5.00	80.5	75.0	125.0	4.03	80.6	0.0497	0.0	35.0	
Aroclor 1248	4.12	5.00	82.5	75.0	125.0	4.15	83.0	0.595	0.0	35.0	
Aroclor 1254	3.88	5.00	77.7	75.0	125.0	3.90	78.0	0.444	0.0	35.0	
Aroclor 1260	4.02	5.00	80.4	67.7	129.9	4.04	80.8	0.511	0.0	35.0	
Aroclor 1262	4.35	5.00	87.1	75.0	125.0	4.38	87.7	0.707	0.0	35.0	
Aroclor 1268	4.66	5.00	93.2	75.0	125.0	4.72	94.4	1.19	0.0	35.0	

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8 153.9		
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1425222005	0.520	0.500	104
1425222009	0.505	0.500	101
410437-LCSD	0.430	0.500	86.1
1425222008	0.526	0.500	105
1425222004	0.452	0.500	90.5
410436-LCS	0.426	0.500	85.1
1425222013	0.553	0.500	111



Quality Control Sample Batch Report

Analysis Information

Workorder: 1425222

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19866 (HBN: 134426)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5239 (HBN: 134548)
Analyzed By: Jessica Helland

Surrogate Recoveries

Surrogate	Tetrachloro-m-xylene		
QC Limits	55.8	153.9	
Units	ug/sample		
Lab ID	Result	Target	% Recovery
1425222007	0.509	0.500	102
1425222001	0.430	0.500	86.1
1425222002	0.429	0.500	85.8
410435-MB	0.435	0.500	87.0
1425222011	0.567	0.500	113
1425222015	0.526	0.500	105
1425222003	0.426	0.500	85.2
1425222016	0.552	0.500	110
1425222014	0.560	0.500	112
1425222006	0.466	0.500	93.1
1425222010	0.507	0.500	101
1425222012	0.550	0.500	110



Quality Control Sample Batch Report

Analysis Information

Workorder: 1425222

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: EPA 3550, Sonic Ext, Wipe
Batch: ENVX/19866 (HBN: 134426)
Prepared By: Joseph Gress

Analysis: SW 8082
Batch: EGC/5239 (HBN: 134548)
Analyzed By: Jessica Helland

Comments

Aroclor 1232 fails low in both the LCS and LCSD. (72.6 and 74.1 respectively) The lower limit is 75. All instrument QC passes. Samples are wipes and cannot be re-extracted. NC/CAR 836 was initiated.

QC Data Approved and Reviewed by

Jessica Helland

Analyst

Mila V. Potekhin

Peer Review

9/10/2014

Date

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable

Client: ENVIRON International Corp.
Project: Indianapolis, IN
WorkOrder: 1409287

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/Kg	Micrograms per Kilogram

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-078**Collection Date:** 9/4/2014 04:11 PM**Work Order:** 1409287**Lab ID:** 1409287-07**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS						
Aroclor 1016	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1221	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1232	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1242	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1248	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1254	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1260	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1262	U		120	µg/Kg	1	9/11/2014 07:50 PM
Aroclor 1268	U		120	µg/Kg	1	9/11/2014 07:50 PM
PCBs, Total	U			µg/Kg	1	9/11/2014 07:50 PM
Surr: Decachlorobiphenyl	114		40-140	%REC	1	9/11/2014 07:50 PM
Surr: Tetrachloro-m-xylene	107		45-124	%REC	1	9/11/2014 07:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-079**Collection Date:** 9/4/2014 04:09 PM**Work Order:** 1409287**Lab ID:** 1409287-08**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082			
Aroclor 1016	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1221	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1232	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1242	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1248	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1254	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1260	330		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1262	U		100	µg/Kg	1	9/11/2014 08:06 PM
Aroclor 1268	U		100	µg/Kg	1	9/11/2014 08:06 PM
PCBs, Total	330			µg/Kg	1	9/11/2014 08:06 PM
Surr: Decachlorobiphenyl	112		40-140	%REC	1	9/11/2014 08:06 PM
Surr: Tetrachloro-m-xylene	107		45-124	%REC	1	9/11/2014 08:06 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-080**Collection Date:** 9/4/2014 03:53 PM**Work Order:** 1409287**Lab ID:** 1409287-09**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082			
Aroclor 1016	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1221	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1232	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1242	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1248	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1254	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1260	1,200		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1262	U		160	µg/Kg	1	9/11/2014 08:23 PM
Aroclor 1268	U		160	µg/Kg	1	9/11/2014 08:23 PM
PCBs, Total	1,200			µg/Kg	1	9/11/2014 08:23 PM
Surr: Decachlorobiphenyl	114		40-140	%REC	1	9/11/2014 08:23 PM
Surr: Tetrachloro-m-xylene	108		45-124	%REC	1	9/11/2014 08:23 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-081**Collection Date:** 9/4/2014 03:53 PM**Work Order:** 1409287**Lab ID:** 1409287-10**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			SW8082			
Aroclor 1016	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1221	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1232	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1242	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1248	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1254	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1260	900		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1262	U		130	µg/Kg	1	9/11/2014 08:56 PM
Aroclor 1268	U		130	µg/Kg	1	9/11/2014 08:56 PM
PCBs, Total	900			µg/Kg	1	9/11/2014 08:56 PM
Surr: Decachlorobiphenyl	111		40-140	%REC	1	9/11/2014 08:56 PM
Surr: Tetrachloro-m-xylene	107		45-124	%REC	1	9/11/2014 08:56 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-082**Collection Date:** 9/4/2014 03:46 PM**Work Order:** 1409287**Lab ID:** 1409287-11**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS						
Aroclor 1016	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1221	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1232	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1242	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1248	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1254	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1260	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1262	U		110	µg/Kg	1	9/11/2014 09:13 PM
Aroclor 1268	U		110	µg/Kg	1	9/11/2014 09:13 PM
PCBs, Total	U			µg/Kg	1	9/11/2014 09:13 PM
Surr: Decachlorobiphenyl	110		40-140	%REC	1	9/11/2014 09:13 PM
Surr: Tetrachloro-m-xylene	106		45-124	%REC	1	9/11/2014 09:13 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp**Date:** 15-Sep-14**Client:** ENVIRON International Corp.**Project:** Indianapolis, IN**Sample ID:** 090414-B-083**Collection Date:** 9/4/2014 03:44 PM**Work Order:** 1409287**Lab ID:** 1409287-12**Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS						
Aroclor 1016	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1221	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1232	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1242	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1248	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1254	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1260	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1262	U		130	µg/Kg	1	9/11/2014 09:30 PM
Aroclor 1268	U		130	µg/Kg	1	9/11/2014 09:30 PM
PCBs, Total	U			µg/Kg	1	9/11/2014 09:30 PM
Surr: Decachlorobiphenyl	116		40-140	%REC	1	9/11/2014 09:30 PM
Surr: Tetrachloro-m-xylene	111		45-124	%REC	1	9/11/2014 09:30 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ENVIRON International Corp.
Work Order: 1409287
Project: Indianapolis, IN

QC BATCH REPORTBatch ID: **62526**Instrument ID **GC14**Method: **SW8082**

Mblk		Sample ID: PBLKS1-62526-62526		Units: µg/Kg		Analysis Date: 9/11/2014 12:48 PM		
Client ID:		Run ID: GC14_140911A		SeqNo: 2930911		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aroclor 1016	U	33						
Aroclor 1221	U	33						
Aroclor 1232	U	33						
Aroclor 1242	U	33						
Aroclor 1248	U	33						
Aroclor 1254	U	33						
Aroclor 1260	U	33						
Aroclor 1262	U	33						
Aroclor 1268	U	33						
PCBs, Total	U	0						
<i>Surr: Decachlorobiphenyl</i>	145.9	0	166	0	87.9	50-130	0	
<i>Surr: Tetrachloro-m-xylene</i>	135.8	0	166	0	81.8	45-124	0	

LCS		Sample ID: PLCSS1-62526-62526		Units: µg/Kg		Analysis Date: 9/11/2014 01:05 PM		
Client ID:		Run ID: GC14_140911A		SeqNo: 2930915		Prep Date: 9/8/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aroclor 1016	1608	33	1666	0	96.5	50-130	0	
Aroclor 1260	1557	33	1666	0	93.5	50-130	0	
<i>Surr: Decachlorobiphenyl</i>	146.2	0	166	0	88.1	50-130	0	
<i>Surr: Tetrachloro-m-xylene</i>	142.3	0	166	0	85.7	45-124	0	

The following samples were analyzed in this batch:

1409287-01A	1409287-02A	1409287-03A
1409287-04A	1409287-05A	1409287-06A
1409287-07A	1409287-08A	1409287-09A
1409287-10A	1409287-11A	1409287-12A
1409287-13A		

Client: ENVIRON International Corp.
Work Order: 1409287
Project: Indianapolis, IN

QC BATCH REPORT

Batch ID: 62533 Instrument ID **GC14** Method: **SW8082**

MBLK		Sample ID: PBLKS1-62533-62533			Units: µg/Kg		Analysis Date: 9/10/2014 03:14 AM			
Client ID:		Run ID: GC14_140909A			SeqNo: 2932802		Prep Date: 9/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	33								
Aroclor 1221	U	33								
Aroclor 1232	U	33								
Aroclor 1242	U	33								
Aroclor 1248	U	33								
Aroclor 1254	U	33								
Aroclor 1260	U	33								
Aroclor 1262	U	33								
Aroclor 1268	U	33								
PCBs, Total	U	0								
<i>Surr: Decachlorobiphenyl</i>	168.6	0	166	0	102	50-130	0			
<i>Surr: Tetrachloro-m-xylene</i>	162.7	0	166	0	98	45-124	0			

LCS		Sample ID: PLCSS1-62533-62533			Units: µg/Kg		Analysis Date: 9/10/2014 03:30 AM			
Client ID:		Run ID: GC14_140909A			SeqNo: 2932803		Prep Date: 9/8/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1772	33	1666	0	106	50-130	0			
Aroclor 1260	1746	33	1666	0	105	50-130	0			
<i>Surr: Decachlorobiphenyl</i>	169.6	0	166	0	102	50-130	0			
<i>Surr: Tetrachloro-m-xylene</i>	166.4	0	166	0	100	45-124	0			

The following samples were analyzed in this batch:

1409287-14A	1409287-15A	1409287-16A
1409287-17A	1409287-18A	1409287-19A
1409287-20A	1409287-21A	1409287-22A
1409287-23A	1409287-24A	1409287-25A
1409287-26A	1409287-27A	1409287-28A
1409287-29A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ANALYTICAL REPORT

Workorder: **34-1424801**

Client: Environ Corporation

Project Manager: Paul E. Pope

Analytical Results

Sample ID: 090414-W-029	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801029	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19840 (HBN: 134228)	Initial: 1 wipe	Batch: EGC/5226 (HBN: 134334)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/07/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	

Sample ID: 090414-W-030	Sampling Site: Indianapolis, IN	Collected: 09/04/2014
Lab ID: 1424801030	Media: Wipe	Received: 09/05/2014
Matrix: Wipe	Sampling Parameter: Volume 100 cm ²	

Analysis Method - SW 8082

Preparation: EPA 3550, Sonic Ext, Wipe	<u>Weight/Volume</u>	Analysis: SW 8082, Wipe	Instrument ID: GCE03
Batch: ENVX/19840 (HBN: 134228)	Initial: 1 wipe	Batch: EGC/5226 (HBN: 134334)	Percent Solid: NA
Prepared: 09/05/2014	Final: 10 mL	Analyzed: 09/07/2014 00:00	Report Basis: Wet

Analyte	ug/sample	RL (ug/sample)	Dilution	Qual.
Aroclor 1016	ND	0.10	1	
Aroclor 1260	ND	0.10	1	
Aroclor 1221	ND	0.20	1	
Aroclor 1232	ND	0.10	1	
Aroclor 1242	ND	0.10	1	
Aroclor 1248	ND	0.10	1	
Aroclor 1254	ND	0.10	1	
Aroclor 1268	ND	0.10	1	
Aroclor 1262	ND	0.10	1	
Total PCBs	ND	0.10	1	